

Utah Weekly Pertussis Update

2019 data, through MMWR week ending March 9 (MMWR week 10)

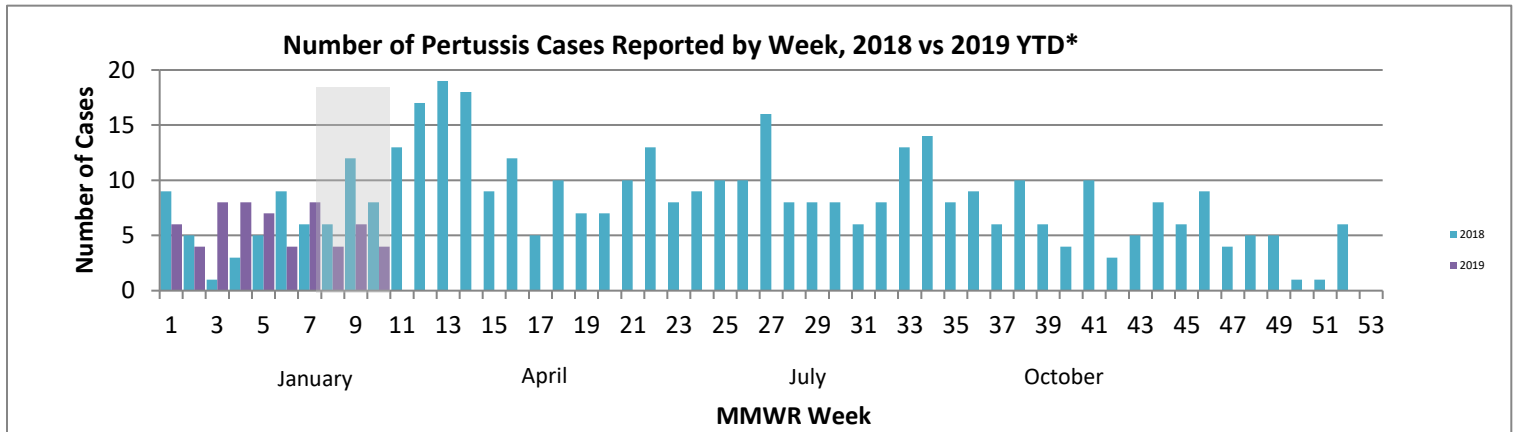
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	59	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	9.9
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	4	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	64	2019 Hospitalizations	1
Age groups with the highest rates	<1	2019 Cases in infants <1 year	4
	1-4		

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	4	51,401	40.6
1-4	8	203,799	20.5
5-14	16	521,331	16.0
15-24	10	495,829	10.5
25-34	6	457,423	6.8
35-44	4	422,547	4.9
45-54	6	317,532	9.9
55-64	4	296,399	7.0
65+	1	335,572	1.6
Unknown	0	-	-
Total	59	3,101,833	9.9

* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

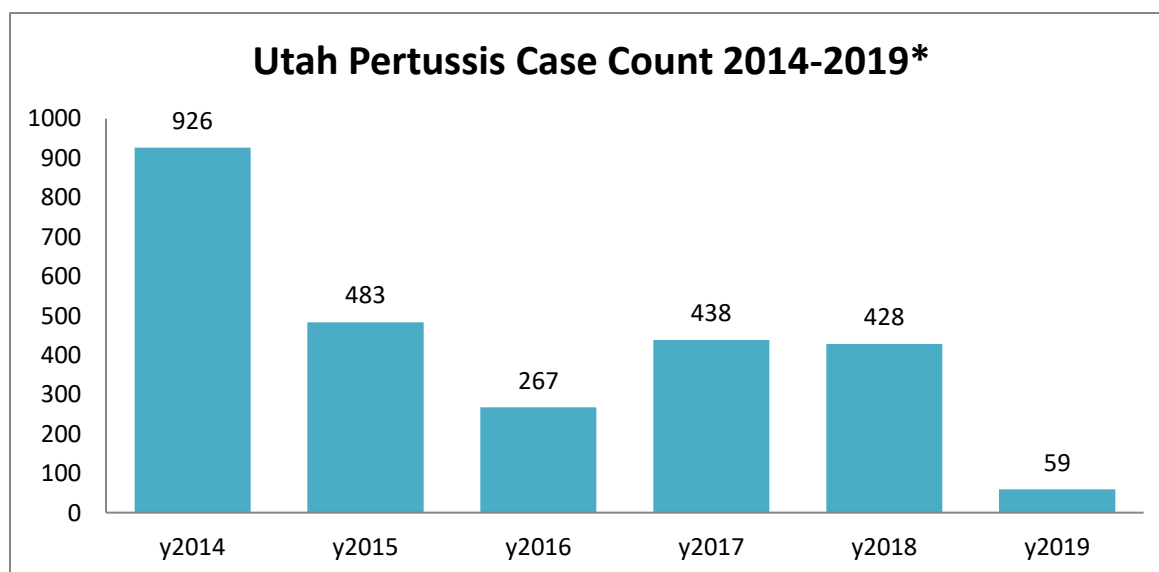
School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	3	102,181	15.3
Kindergarten	5	0	49,869	0.0
1	6	2	51,269	20.3
2	7	0	52,299	0.0
3	8	1	52,131	10.0
4	9	3	53,612	29.2
5	10	2	53,712	19.4
6	11	1	52,765	9.9
7	12	4	52,359	39.8
8	13	2	51,910	20.1
9	14	1	51,405	10.1
10	15	2	49,974	20.9
11	16	2	49,983	20.9
12	17	1	50,211	10.4

* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade.

High incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2014-2019* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

2019 data, through MMWR week ending January 5 (MMWR week 1)

Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	0	0.0
Central Utah	0	0.0
Davis County	1	1.5
Salt Lake County	23	10.6
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	9	19.9
Summit County	0	0.0
Tooele County	3	23.2
TriCounty	0	0.0
Utah County	11	9.5
Wasatch County	1	16.2
Weber-Morgan	11	21.8

* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

